



**Savannah River
Remediation**

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Savannah River Site F-Tank Farm NRC Onsite Observation Visit



March 27 & 28, 2013

SRR-CWDA-2013-00051, Revision 1

NRC F-Tank Farm Onsite Observation			
Wednesday, March 27, 2013			
Start	End	Topic	Location
8:00	9:00	Badging/Travel	Meet 703-46A
9:00	9:30	Opening Remarks & Inbrief	705-1C, Room 34 A-B
9:30	11:00	F-Tank Farm Tour	F-Tank Farm
11:00	12:00	Lunch	766-H
12:00	3:30	Technical Discussions ¹	705-1C, Room 34 A-B
3:30	4:15	NRC Internal Review	705-1C, Room 34 A-B
4:15	4:45	NRC Outbrief	705-1C, Room 34 A-B
4:45	5:00	Travel/NRC Depart	703-46A
Notes: ¹ DOE/NRC Management Meeting from 12:30 - 1:30 in Bldg. 704-S (Conf. Room B), potentially followed by other non-Onsite Observation Visit activities for NRC Management.			

NRC F-Tank Farm Onsite Observation			
Thursday, March 28, 2013			
Start	End	Topic	Location
8:30	8:45	Arrive/Travel	Meet 703-46A
8:45	11:00	Technical Discussions	705-1C, Room 34 A-B
11:00	12:30	Lunch	Offsite
12:30	1:15	NRC Internal Review	705-1C, Room 34 A-B
1:15	1:45	NRC Outbrief	705-1C, Room 34 A-B
1:45	2:00	Travel/NRC Depart	703-46A

- 3/27 {
 - Environmental Monitoring Program
 - Annual Monitoring Report
 - Geographic Information System (GIS) Data
 - Tank 8 & Tank 16 Release Documentation
 - Radiation Protection Program
 - Tank 18 and Tank 19 Post-Job ALARA Reviews
 - Tank 18/Tank 19 Final Closure Documentation
 - Final Configuration Report
 - Tank Grouting Video
 - DOE Order 435.1 Maintenance Plan
 - Tank 5 /Tank 6 Waste Retrieval Documentation
 - Closure Module
- 3/28 {
 - Tank 5/Tank 6 Final Inventory Reports
 - Tank 5/Tank 6 Final Risk Estimates
 - Special Analysis

F-Tank Farm Field Observations

- Status: Tanks 18/19
- Status: Tanks 5/6
- Status: Other F-Tank Farm Tanks
- Field Observation Briefing
- Field Observation (Tanks 18/19 & 5/6)
- Depart for Lunch

Current Status

- Tank 18
 - 100 % Full
 - 8094 Cubic Yards Bulk Fill Placed
 - 64 Cubic Yards Rejected
 - All Risers Capped
- Tank 19
 - 100 % Full
 - 8090 Cubic Yards Bulk Fill Placed
 - 154 Cubic Yards Rejected
 - All Risers Capped

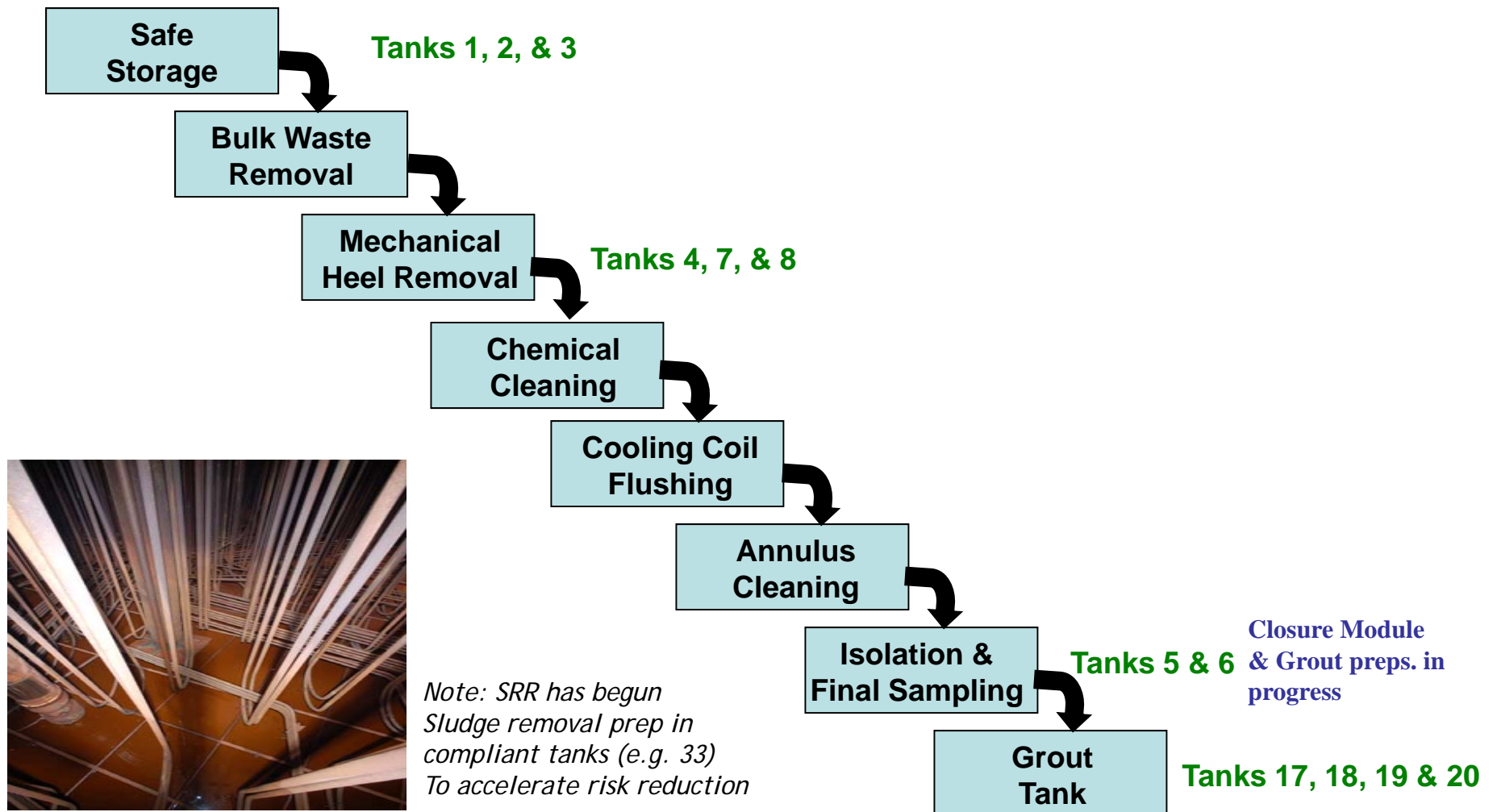
Current Status

- DOE, SCDHEC and EPA agreement to suspend waste removal and perform final sampling and analysis
- Final residual characterization complete
- Final documentation and preparations for grouting in-progress

Status: Tank Closure Progression (FTF)

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Status: Tank Closure

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FTF →

Tank	Bulk Waste Removal						DOE, SCDHEC, EPA Approvals	Tank Cleaning			DOE, SCDHEC, EPA Concurrence	Residual		Isolate Tank [2]	Closure Docs Approved (C/MWRD/Tr 2)	FFA Closure Forecast [1]	FFA Closure Commitment (CY)
	Phase I			Remaining Phases				Mechanical	Chemical	Annulus		Sample	Analyze				
	Prep	Mix	Transfer	Prep	Mix	Transfer											
17							D/S/E		N/A	N/A	D/S/E						
20							D/S/E		N/A	N/A	D/S/E						
18							D/S/E		N/A	N/A	D/S/E					2012	2012
19							D/S/E		N/A	N/A	D/S/E					2012	2012
5							D/S/E				D/S/E				Aug-13	2014	2015
6							D/S/E				D/S/E				Aug-13	2014	2015
16							D/S/E			Evaluating						2015	2015
12							D/S/E		Apr-13							2015	2015
11							D/S/E	Oct-13								2017	2017
4							D/S/E	Jan-18								2021	2021
7							D/S/E	Apr-19								2022	2022
8							D/S/E	Apr-19								2022	2022
24						Mar-20			N/A	N/A						2022	2022
21				Jul-19					N/A	N/A						2022	2022
22				Oct-18					N/A	N/A						2021	2021
13			Oct-19													2022	2022
3		Jun-15														2021	2021
10	Jun-13															2017	2017
14	May-15															2019	2019
15	Jan-14	[4]														2020	2021
9	Dec-14															2019	2021
2	Jul-16															2022	2022
23	Sep-17								N/A	N/A						2019	2019
1	Jul-16															2022	2022

Key:

Mo-Yr

Activity planned start or resume (mo/yr)

Activity is complete

N/A

Activity is not needed

Mo-Yr

Activity is in progress, projected finish (mo/yr)

Red box or text denotes change vs. last report

[1]

FFA Closure forecast dates per LWSP rev 17.

[2]

Ventilation and essential instrumentation may remain until final tank grouting

[3]

Forecast dates per LWSP rev 17 for tanks in BWR and Cleaning Process.

[4]

Forecast for tank rewet to prep for BWR

• Both F-Tank Farm and H-Tank Farm tanks are shown for completeness, however, H-Tank Farm tanks are not within the scope of *Section 3116 Determination for Closure of F-Tank Farm at the Savannah River Site*

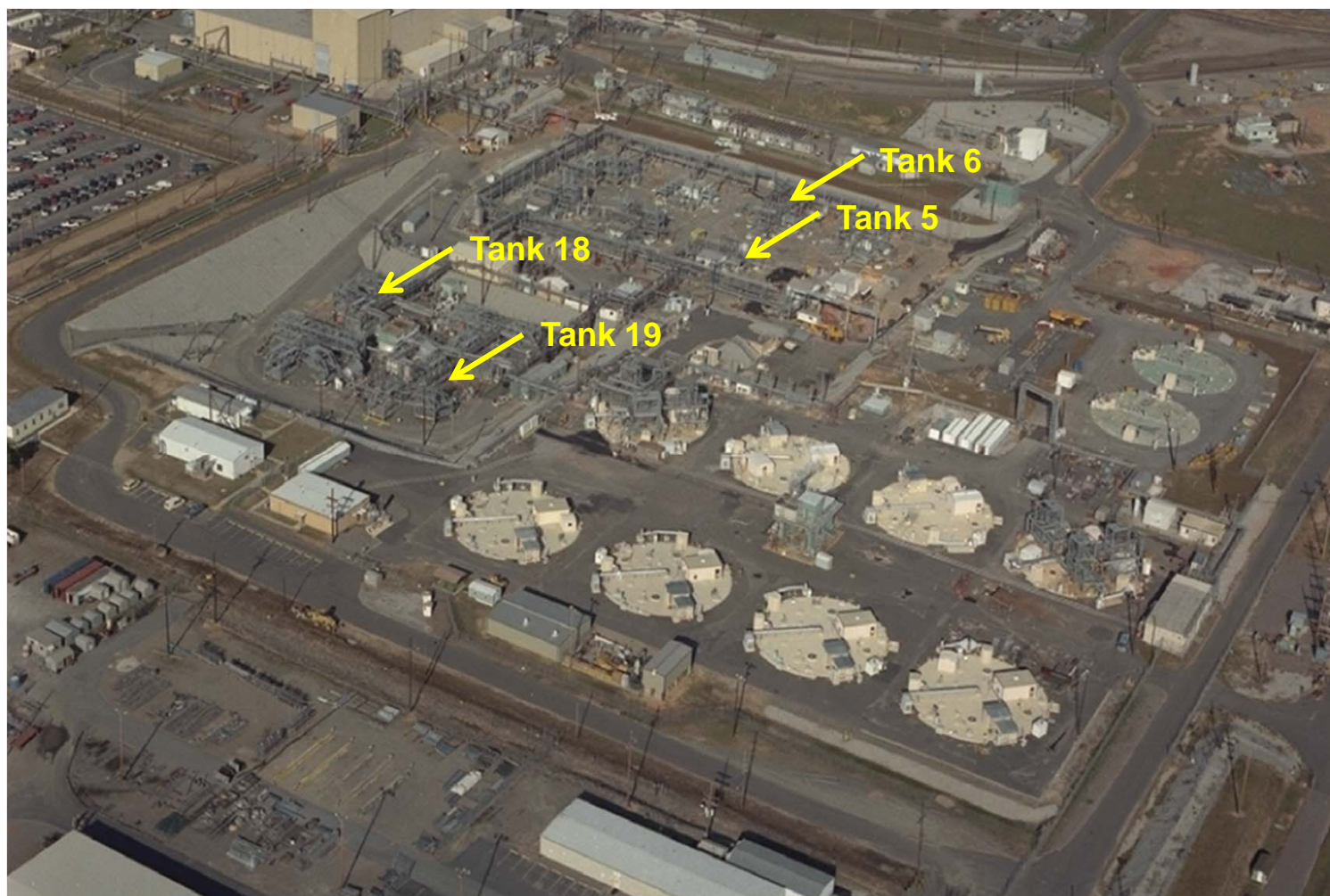
F-Tank Farm Field Observation

- F-Tank Farm is a property protection area, no security escorts required for uncleared personnel within area.
- Personnel involved in tour should stay in contact with designated SRS personnel in order to provide instruction in the event of a need to shelter or evacuate the work area.
- At this time, tour areas are not considered construction work zones personnel will not be required to sign in on safe work permits.
- No areas on tour path requires sign in on a Radiological Work Permit (RWP) or wearing of rad dosimetry.

F-Tank Farm Tanks 18/19 and Tanks 5/6

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- 3/27 {
 - Environmental Monitoring Program
 - Annual Monitoring Report
 - Geographic Information System (GIS) Data
 - Tank 8 & Tank 16 Release Documentation
 - Radiation Protection Program
 - Tank 18 and Tank 19 Post-Job ALARA Reviews
 - Tank 18/Tank 19 Final Closure Documentation
 - Final Configuration Report
 - Tank Grouting Video
 - DOE Order 435.1 Maintenance Plan
 - Tank 5 /Tank 6 Waste Retrieval Documentation
 - Closure Module
- 3/28 {
 - Tank 5/Tank 6 Final Inventory Reports
 - Tank 5/Tank 6 Final Risk Estimates
 - Special Analysis

- The following documentation was provided during the September 2012 observation visit:
 - Presentation on FTF Groundwater Monitoring Plan, SRR-CWDA-2012-00137
 - *F-Area Tank Farm Groundwater Monitoring Plan*, SRNS-RP-2011-00995
 - *2011 Annual Groundwater Monitoring Report for the F- and H-Area Radioactive Liquid Waste Tank Farms*, SRNS-RP-2012-00022
 - *2010 Groundwater Monitoring Report for the Radioactive Liquid Waste Tank Farms January 2011*, SRNS-TR-2011-00038
 - *2009 Groundwater Monitoring Report for the Radioactive Liquid Waste Tank Farms February 2010*, SRNS-TR-2010-00012

- The following documentation will be provided as a follow-up Action Item from this observation visit:
 - *2012 Annual Groundwater Monitoring Report for the F- and H-Area Radioactive Liquid Waste Tank Farms*, SRNS-RP-2013-00118
 - Anticipated to be issued to SCDHEC 3/31/2013

- The following information was provided as a follow-up Action Item from the September 2012 observation visit:

Action Item

1. *DOE to provide NRC additional information on FTF Tank 8 Plume Study.*
 - a) *Tank 16 information to be provided with HTF Basis Document*

- Tank 8 information provided 10/2012
 - *Soil Contamination Adjacent to Waste Tank 8, DPSPU 76-11-4*
 - *Results of Tank 8 Plume Study, DPST-86-511*
- Tank 16 information provided 2/2013
 - *Leakage From Waste Tank 16 Amount, Fate, and Impact, DP-1358*

- The following information was provided as follow-up Action Item from the September 2012 observation visit:

Action Item

2. *DOE to provide ARC GIS base layers for General Separations Area and groundwater well construction/coordinates.*
 - a) *Water table elevation data 1990-Present*
 - b) *Specific wells (e.g., FTF, HTF, Inactive process sewer lines, Tank 16 wells installed under RI)*

- Information provided 12/2012

- NRC Feedback/Discussion on Environmental Monitoring Program
 - Annual Monitoring Report
 - Geographic Information System (GIS) Data
 - Tank 8 Release Documentation
 - Tank 16 Release Documentation

- Final ALARA review and final collective dose calculation for Tank 18 and Tank 19 grout operations have been completed. Documentation provided prior to observation visit:
 - *Post-Job ALARA Review—Tank 18 Grout Fill, 12-FTF-123*
 - *Post-Job ALARA Review—Tank 19 Grout Fill, 12-FTF-124*
- NRC Feedback/Discussion on Radiation Protection Program

- Tank 18 Grout Operations Video provided to NRC 8/2012
 - Approximately 35 hours of video
- Final Configuration Report in-progress, estimated approval May 2013
 - Summary of internal components grouted
 - Summarizes grout compressive strength testing results
 - 1161 test cylinders
 - 28-day average 2880 psi
 - 90-day average 4680 psi
 - Addresses grouting of leak detection sump
- The following document will be provided during this observation visit
 - *Tanks 18/19 Final Configuration Report Inputs*, SRR-LWE-2012-00217

Tank 18 / Tank 19 Final Closure Documentation

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Table 2 - Estimated vs. Actual Grout Volumes for Tanks 18 & 19 In-Tank Equipment							
Tank	Riser	Equipment	In Closure Module?	Estimated Grout Volume (Gallons)	Reference	Actual Grout Volume (Gallons)	Reference
18	NW	Standard mixer pump	Y	457	BPF213221 Sheet 22	424	WO 01087939-17 4.148
18	NE	Transfer pump (1.5" discharge line)	Y	3.28	See Note 1	3	WO 01087939-17 4.227
18	NE	Sampling mast (1" pipe)	Y	1.89	See Note 1	2	WO 01087939-17 4.234
18	W	Transfer pump	Y	160	BPF213350 Sheet 1	90	WO 01087939-17 4.187
18	E	Standard mixer pump	Y	457	BPF213221 Sheet 22	290.5	WO 01087939-17 4.108
18	SE	Evaporator feed pump	Y	16	S5-2-2489 S5-2-1390	14	WO 01087939-17 4.46
18	Center	ADMP	Y	493	VPF22731-1	490	WO 01087939-17 4.276
18	Center	North 2" pipe (see Note 2)	N	N/A	N/A	8	WO 01087939-17 4.276
18	Center	South 2" pipe (see Note 2)	N	N/A	N/A	5	WO 01087939-17 4.276
Tank	Riser	Equipment	In Closure Module?	Estimated Grout Volume (Gallons)	Reference	Actual Grout Volume (Gallons)	Reference
19	NW	Transfer jet	Y	38.1	D179360 W713024	66	WO 01087938-16 4.200
19	NW	Dip tube assembly	Y	1.4	W712936	2	WO 01087938-16 4.242
19	NW	Bubbler tubes, conductivity probe (see Note 3)	N	N/A	N/A	~100 gallons (0.5 cu yds)	WO 01087938-16 4.261
19	NE	Thermowell (1" diameter)	Y	1.89	See Note 1	None, removed before grouting	WO 01087938-16 4.50
19	NE	Water Lance pipe (3/4" diameter)	N	1.2	See Note 1	None, removed before grouting	WO 01087938-16 4.63
19	NE	Spray wash pipe (1.5" diameter) (see Note 2)	N	3.28	See Note 1	4.125	WO 01087938-16 4.36
19	NE	Hydrolance (1.5" diameter) (see Note 2)	N	3.28	See Note 1	0.3	WO 01087938-16 4.78
Note 1 - In some cases, the length of these straight pipes was unknown. In these cases, elevations from M-ESR-S-00015 Table A-1 and S5-2-1390 were used to assume a maximum length for the pipe for a range of pipe diameters. This maximum length and the individual as-found pipe diameters were then used to estimate the volume of grout required.							
Note 2 - These pipes were not initially identified as being fillable but were filled during field implementation.							
Note 3 - The riser was being filled when these unexpected pipes were discovered. The pipes were determined to be fillable and were filled with grout. The riser fill volume was also included in the "Actual Grout Volume" tally.							

[Tanks 18/19 Final Configuration Report Inputs, SRR-LWE-2012-00217]

Tank 18 / Tank 19 Final Closure Documentation

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Industrial Wastewater Closure Module
for the Liquid Waste Tanks 5F and 6F
F-Area Tank Farm Savannah River Site

SRR-CWDA-2012-00071
Revision 0
January 2013

APPENDIX A: WASTE TANK SYSTEM TRACKING

Future closure of the waste tanks and ancillary structures will be conducted in such a way that structures will be included in CMs when determined that it is practical to remove the structures from service simultaneously with the waste tanks and there is no longer a need for the ancillary structures to manage waste in tanks that are still in service. The ancillary structures to be closed as part of the FTF are listed in Table A-1. As CMs are developed and approved, Table A-1 will be updated to include the document number and date of RFS for each of the ancillary structures listed in Permit #17,424-IW (DHEC 01-25-1993) to ensure that all tanks and ancillary structures have been addressed.

Table A-1: FTF Waste Systems Tracking

Waste Tank System	CM Document Number	Date of RFS
Tank 1		
Tank 2		
Tank 3		
Tank 4		
Tank 5	SRR-CWDA-2012-00071	
Tank 6	SRR-CWDA-2012-00071	
Tank 7		
Tank 8		
Tank 17	PIT-MISC-0004	12/15/1997
Tank 18	SRR-CWDA-2010-00003	9/19/2012
Tank 19	SRR-CWDA-2010-00003	9/19/2012
Tank 20	PIT-MISC-0002	7/31/1997
Tank 25		
Tank 26		
Tank 27		
Tank 28		
Tank 33		
Tank 34		
Tank 44		
Tank 45		
Tank 46		
Tank 47		

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Industrial Wastewater Closure Module
for the Liquid Waste Tanks 5F and 6F
F-Area Tank Farm Savannah River Site

SRR-CWDA-2012-00071
Revision 0
January 2013

Table A-1: FTF Waste Systems Tracking (Continued)

Waste Tank System	CM Document Number	Date of RFS
242-F Evaporator Vessel		
Mercury Collection Tank		
Cesium Removal Column Pump Tank		
Overheads Tank, North		
Overheads Tank, South		
242-3F Concentrate Transfer System		
Tanks 17, 18, 19, and 20 Leak Collection Sumps		
242-16F Evaporator Pot		
Mercury Collection Tank		
Cesium Removal Column Pump Tank		
Overheads Tank, North		
Overheads Tank, South		
FPT-1 and FPP-1		
FPT-2 and FPP-2		
FPT-3 and FPP-3		
FDB-1		
FDB-2		
FDB-3		
FDB-4		
FDB-5		
FDB-6		
F-Area Catch Tank		
Tanks 17, 18, 19, and 20 Leak Collection Sumps		

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[Industrial Wastewater Closure Module for the Liquid Waste Tanks 5F and 6F
F-Area Tank Farm, Savannah River Site, SRR-CWDA-2012-00071, Revision 0]

- NRC Feedback/Discussion on Tank 18 / Tank 19 Final Closure Documentation
 - Final Configuration Report
 - Tank Grouting Video

- The following documentation will be provided as a follow-up Action Item from this observation visit:
 - *Savannah River Site Liquid Waste Facilities Performance Assessment Maintenance Program - FY2013 Implementation Plan*
 - Anticipated to be issued to DOE 3/31/2013
 - Anticipated to be available 4/30/2013
- NRC Discussion/Feedback on DOE Order 435.1 Maintenance Plan

- The following documentation was made available by SCDHEC for public review and comment from 2/20/2013 through 3/22/2013:
 - *Industrial Wastewater Closure Module for the Liquid Waste Tanks 5F and 6F F-Area Tank Farm, Savannah River Site, SRR-CWDA-2012-00071, Revision 0*
 - NRC provided comments to SCDHEC on 3/21/2013
- DOE will support SCDHEC to resolve comments as requested

- The following documentation was provided during the September 2012 observation visit:
 - Presentation on Tank 5 and Tank 6 Sampling Activities, SRR-CWDA-2012-00137
 - *Tank 5 Inventory Determination*, SRR-CWDA-2012-00027
 - *Tank 6 Inventory Determination*, SRR-CWDA-2012-00075
 - *Liquid Waste Tank Residuals Sampling and Analysis Program Plan*, SRR-CWDA-2011-00050
 - *Tank 5 Sampling and Analysis Plan*, SRR-LWE-2010-00285
 - *Addendum to the Tank 5 Sampling and Analysis Plan*, SRR-LWE-2010-00340
 - *Tank 6 Sampling and Analysis Plan*, SRR-LWE-2010-00300
 - *Tank 6 Sampling and Analysis Plan Addendum*, SRR-LWE-2011-00209
 - *Tank 6 Sampling and Analysis Plan Addendum 2*, SRR-LWE-2011-00235

- NRC Feedback/Discussion on Tank 5 and 6 Final Inventories

- The following document was provided to the NRC 1/28/2013 :
 - *Tanks 5 and 6 Special Analysis for the Performance Assessment for the F-Tank Farm at the Savannah River Site, SRR-CWDA-2012-00106, Revision 1*
- NRC Discussion/Feedback on Tank 5/Tank 6 Final Risk Estimates

Action Items (6/12/2012)

1. DOE to provide attendance sheets to NRC. *(Complete)*
2. DOE to provide a copy of an in-tank daily inspection video from grout pouring operations. *(Complete)*
3. DOE to provide NRC video progression of grout placement activities (Tank 18) covering the items listed below. NRC will provide additional written guidance on content. *(Complete)*
 - Video representing weekly progression
 - Alternate days of the week
 - Include some initial daily grout pours (first truck)
 - Video to cover up to current activities
 - SCDHEC will view future activities on a regular basis

Action Items (6/12/2012-continued)

4. NRC to provide DOE (Sherri Ross) with latest grout research report and saltstone report. *(Complete)*
5. NRC to provide DOE (Sherri Ross) with documentation on Seabrook Station concrete. *(Complete)*
6. DOE to provide batch tickets to NRC including the following: *(Complete)*
 - Four (4) from accepted trucks
 - Four (4) from rejected trucks

Action Items (9/27/2012)

1. DOE to provide NRC additional information on FTF Tank 8 Plume Study. *(Complete)*
 - a) Tank 16 information to be provided with HTF Basis Document *(Complete)*
2. DOE to provide ARC GIS base layers for General Separations Area and groundwater well construction/coordinates. *(Complete)*
 - a) Water table elevation data 1990-Present *(Complete)*
 - b) Specific wells (e.g., FTF, HTF, Inactive process sewer lines, Tank 16 wells installed under RI) *(Complete)*
3. DOE to provide NRC an electronic copy of presentation material [SRR-CWDA-2012-00137] including action items and attendance rosters. *(Complete)*

NRC FTF Outbrief

- NRC Staff Outbrief
- Action Items Captured
- Closing Statements

Action Items

1. DOE to provide NRC an electronic copy of presentation material [SRR-CWDA-2013-00051, revision 1] including action items and attendance rosters. (target: week of 4/1/2013)
2. DOE to provide NRC *2012 Annual Groundwater Monitoring Report for the F- and H-Area Radioactive Liquid Waste Tank Farms* (SRNS-RP-2013-00118), when available. (target: week of 4/1/2013)
3. DOE to provide NRC *Tanks 18 and 19 Final Configuration Report for F-Tank Farm at the Savannah River Site*, when available. (DOE to notify NRC if anticipated issuance date beyond May 2013)
4. DOE to provide NRC *Savannah River Site Liquid Waste Facilities Performance Assessment Maintenance Program - FY2013 Implementation Plan*, when available. (target: May 2013)

Action Items (cont'd)

5. DOE to provide NRC copies of GSA Eastern and Western groundwater reports. (target: week of 4/1/2013)
6. DOE to arrange for a walkdown of seepage basins, process sewer line, etc during future NRC FTF onsite observation visit. (if possible, to be scheduled with next FTF onsite observation visit)
7. DOE to provide NRC radiological dose reports for Tank 5 & 6 final sampling and characterization. (target: week of 4/22/2013)
8. DOE to provide NRC information on air doses (radiological) within F-Tank Farm. (target: week of 4/22/2013)
9. DOE to provide NRC Tank 18 & 19 pre-job ALARA reviews. (target: week of 4/22/2013)
10. DOE to provide NRC with Industrial hygiene monitoring plan and FARMS plan for Tank 18 & 19, as well as associated results of monitoring. (target: week of 4/22/2013)

Action Items (cont'd)

11. DOE/NRC to arrange follow-up clarification phone call concerning Tank 18 grouting video provided as a follow-up to the June 2012 FTF onsite observation visit. (target: week of TBD)
12. DOE/NRC to arrange follow-up clarification phone call regarding Tank 8 Plume (target: week of TBD)
 - Cs/Sr ratios (analytical techniques)
 - Sr mobility
 - Hydrological Systems
13. DOE to provide NRC electronic copies of additional reference documents requested as part of NRC review of Tank 5 and 6 final inventory documentation. (target: week of 4/1/2013)

Action Items (cont'd)

14. DOE/NRC to arrange follow-up clarification phone call regarding mapping methodology (target: week of TBD)
 - Include clarification of annulus volume determination (100% inspection versus 4-riser access)
 - Consider sending sample crawler video
15. Provide video of Tank 5/6 Annulus inspection (target: week of 4/22/2013)
16. DOE/NRC to arrange follow-up clarification phone call on Tank 5/6 Special Analysis (target: week of TBD)
17. DOE/NRC to determine schedule for follow-up clarification phone calls (target: week of 4/15/2013)

Documents Provided:

- *Tanks 18/19 Final Configuration Report Inputs,*
SRR-LWE-2012-00217 (hardcopy only)

Attendance Sheets: 3/27/2013

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NRC F-Tank Farm Monitoring Visit
March 27, 2013
Inbrief/F-Tank Farm Tour

Name	Affiliation	Phone
LARRY ROMANOWSKI	SRR	
Kent Rosenberger	SRR	
Sherri Ross	DOE-SR	
Kim Haug	SRR	
Linda Sutton	DOE-HQ	
GREGORY SUBER	NRC-DWMEP	
LARRY CAMPER	NRC-DWMEP	
HARRY FELSHER	NRC-DWMEP	
Cynthia Barr	USNRC	
Scott H. Simons	SCDHEC	
Leigh Beatty	SCDHEC	
Steve Thomas	SRR	
T.J. SPEDARS	DOE	
Mark Mahoney	SRR	
James Herbert	SRR	
MARK LAYTON	SRR	
Dan Ferguson	DOE	
Barry Mullinax	SCDHEC	

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NRC F-Tank Farm Monitoring Visit
March 27, 2013
Technical Discussions / Daily Outbrief

Name	Affiliation	Phone
LARRY ROMANOWSKI	SRR	
Barry Mullinax	SCDHEC	
MARK LAYTON	SRR	
Linda Sutton	DOE-HQ	
Philip Prater	DOE-SR/ACP	
Andy Tisher	SRR	
Jeffrey Thibault	SRNS/ACP	
Gerald Blount	SRNS/ACP	
Cathy Lewis	SRNS/ACP	
Mike Gump	SRNS/ACP	
DWEN STEVENS	SRR	
Leigh Beatty	SCDHEC	
Scott H. Simons	SCDHEC	
Cynthia S. Barr	NRC	
Dan Ferguson	DOE	
HARRY FELSHER	NRC	
Steve Thomas	SRR	
GREGORY SUBER	NRC	
Sherri Ross	DOE-SR	
Kent Rosenberger	SRR	
James Herbert	SRR	

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Attendance Sheets: 3/28/2013

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NRC F-Tank Farm Monitoring Visit March 28, 2013

Inbrief / Technical Discussions

Name	Affiliation	Phone
LARRY ROMANOWSKI	SRR	
Kim Hauer	SRR	
Kent Rosenberger	SRR	
Sherri Ross	DOE-SR	
MARK LAYTON	SRR	
Barry Mullinax	DHEC	
Linka Sutton	DOE-HQ	
GREGORY SUBER	NRC/DWMEP	
HARRY FELSKER	NRC/DOE	
Dan Ferguson	DOE-SA	
Cynthia S. Barr	NRC	
STEVE THOMAS	SRR	
Mark Mahoney	SRR	
Leigh Beatty	SCDHEC	
SKIP WIGGINS	JRA	
Ben Dean	SRR	
Jody Tisher	SRR	
JOHN DECHIPINTI	SRR	
Joe Thornton	SRR	

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NRC F-Tank Farm Monitoring Visit March 28, 2013

Outbrief for F-Tank Farm Monitoring Visit

Name	Affiliation	Phone
LARRY ROMANOWSKI	SRR	
Kent Rosenberger	SRR	
Kim Hauer	SRR	
Sherri Ross	DOE-SR	
MARK LAYTON	SRR	
Barry Mullinax	DHEC	
Linka Sutton	DOE-HQ	
GREGORY SUBER	NRC	
HARRY FELSKER	NRC	
Dan Ferguson	DOE	
Cynthia S. Barr	NRC	
Armanda Watson	DOE-SR	
STEVE THOMAS	SRR	
Mark Mahoney	SRR	
Leigh Beatty	SCDHEC	
Joe Thornton	SRR	
Ben Dean	SRR	

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